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(54) RADIATION-RESISTANT COMPOSITION FOR USE IN HIGH RADIATION FIELD OF AT LEAST 500 RAD

(57)Abstract:

PURPOSE: To obtain a polyolefin resin composition which can withstand a high radiation field of 400 Mrad or above by mixing a specified polyolefin resin with a specified antioxidant.

CONSTITUTION: A radiation-resistant composition prepared by adding at least 3 pts.wt. antioxidant (A) to 100 pts.wt. polyolefin resin (B). The antioxidant (A) is at least one compound selected from among 4,4'-butylidenebis-(6-t-butyl-3-methylphenol), 1,1,3-tris(2-methyl-4-hydroxy-5-t-butylphenol)butane, 4,4'-bis(α,α -dimethylbenzyl)diphenylamine, mono(α -methylbenzyl)phenol, di(α -methylbenzyl)-phenol and tri(α -methylbenzyl)phenol. The resin (B) is at least one resin selected from among an ethylene/ethyl acrylate copolymer, an ethylene/methyl acrylate copolymer, an ethylene/vinyl acetate copolymer or an ultralow-density polyethylene.

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